

KAZ'MIN, A.I., starshiy nauchnyy sotrudnik; CORBUNOVA, R.L., starshiy  
nauchnyy sotrudnik; ANTONOV, A.I.

Our experience in the use of a brace of the Milwaukee type.  
Ortop., travm. i protez. 26 no.4:73-75 Ap '65.

(MIRA 18:12)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. -  
chlen-korrespondent AMN SSSR prof. M.V.Volkov). 2. Vedushchiy  
konstruktor TSentral'nogo instituta travmatologii i ortopedii  
(for Antonov). Adres avtorov: Moskva A-299, ul. Priorova, dom  
10, TSentral'nyy institut travmatologii i ortopedii.

ACC NR: AP6017986

(N)

SOURCE CODE: UR/0413/66/000/010/0086/0086

INVENTOR: Bashilov, I. P.; Bulanzhe, Yu. D.; Dubovik, A. S.; Yerofeyev, V. I.; Keylishvili, P. V.; Kobrin, L. V.; Kogan, B. Ya.; Kaz'min, A. I.; Popov, Ye. I.; Mikhaylov, N. N.; Churbakov, A. I.; Shileyko, A. V.

ORG: None

TITLE: An automatic device for determining acceleration due to gravity on a movable base. Class 42, No. 181833 [announced by the Institute of Physics of the Earth imeni O. Yu. Shmidt, AN SSSR (Institut fiziki Zemli AN SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 10, 1966, 86

TOPIC TAGS: gravity, electron optics, electronic equipment, gravimeter

ABSTRACT: This Author's Certificate introduces an automatic device for determining acceleration due to gravity on a movable base, using a strongly damped elastic gravimeter system. The installation contains a meter for acceleration due to gravity, a system of mirrors, lens, light source, two condensers and a slotted prism. Accuracy of measurement is improved, and processing of the resultant information is automated by using an electron-optical converter which changes angles of turn of a pendulum to digital code. This converter is made in the form of a code mask with lenses attached. A prism is mounted behind the lenses with metallic mirrors and photocells.

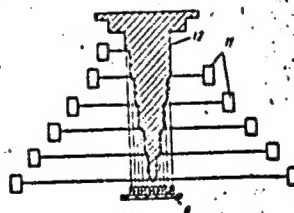
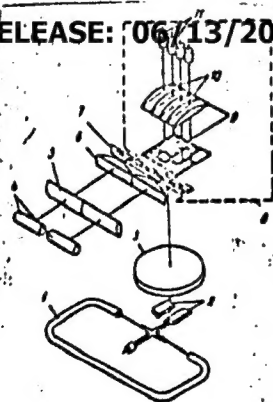
UDC: 531.768.08:528.026

Card 1/2

ACC NR: AP6017986

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721410011-4"



1--accelerometer; 2--system of mirrors; 3--objective lens; 4--light source; 5 and 6--condensers; 7--slotted prism; 8--electron-optical converter; 9--code mask; 10--lenses; 11--photocells; 12--prism with metallic mirrors

SUB CODE: 09, 08/ SUBM I.TZ: 14May64

Card 2/2

KAZMIN, A.N.

Cuneiform resection of the spine in severe forms of scoliosis. Acta  
chir. orthop. traum. cech. 29 no.4:368-371 Ag '62.

1. Ustredni ustav traumatologie a ortopedie, reditel radny clen  
Akademie lekarskych ved SSSR prof. N.N.Priorov.  
(SCOLIOSIS)

CHIZHOV, D.G.; KOOTEV, G.I.; LAVRENIENKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.; IVANOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIN, M.F.; POPOV, V.A.; ZAGORODNIKOV, P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.; YERSHOV, P.I.; MESHCHERYAKOV, V.I.; YEFREMOV, S.G.; LEVIN, I.S.; DETUCHEV, L.I.; KOKOREV, S.V.

Nikolai Alekseevich Andreev. Energetik 4 no.9:40 S '56. (MLRA 9:10)  
(Andreev, Nikolai Alekseevich, 1896-1956)

KAZ'MIN, A.V.

CHIZHOV, D.G.; KOGTEV, G.I.; LAVRENEKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.;  
IVANOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIN, M.P.; POPOV, V.A.;  
ZAGORODNIKOV, P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.;  
YERSHOV, P.I.; MESHCHERYAKOV, V.I.; YEFREMOV, S.G.; LEVIN, I.S.;  
LETUCHEV, L.I.; BELKIN, M.N.; OBOLONKOV, M.I.; BATENIN, B.A.;  
BUR'YANOV, B.P.; KANATOV, P.I.; KOKOREV, S.V.

Nikolai Aleksseevich Andreev. Elek. sta. 27 no.10:62 0 '56.  
(Andreev, Nikolai Aleksseevich, 1897-1956) (MLRA 9:12)

KAZ'MIN, F.P.; MEDVEDNIKOV, V.A.

Experience in the operation of the USVM-1 blender. Tekst.prom. 20  
no.9:71-74 S '60. (MIRA 13:10)

1. Direktor fabriki imeni Petra Alekseyeva (for Kaz'min).
2. Glavnyy inzhener fabriki imeni Petra Alekseyeva (for Medvednikov).  
(Woolen and worsted manufacture--Equipment and supplies)

LEBEDEVA, Lyubov' Yakovlevna, kand. biol. nauk; LEBEDEV, Aleksandr  
Ivanovich, kand. sel'khoz. nauk; KAZ'MIN, G., kand. sel'khoz.  
nauk, otv. red.; SHAYKOVA, N., tekhn. red.

[Grapes in the Maritime Territory] Vinograd v Primorskom krae.  
Vladivostok, Primorskoe knizhnoe izd-vo, 1962. 157 p.  
(MIRA 16:3)

(Maritime Territory--Viticulture)

S/065/63/000/003/002/006  
E075/E436

AUTHORS: Kaz'min, G.I., Bayburskiy, L.A., Odintsov, A.B.

TITLE: Preparation of a solvent for the production of polyethylene

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.3, 1963, 19-22

TEXT: The solvent was prepared from commercial extraction grade benzene extracted from low-sulphur, paraffinic Groznyy crudes. The most suitable fraction of the benzene had the initial boiling points 75 to 95°C, benzene content 1.5 to 2.3 wt.%, sulphur content < 0.005 wt.%, naphthenic hydrocarbons 40 to 48 wt.%. The production costs of this solvent are lower than those for a similar solvent produced from catalytic reformates. The costs could be decreased further by employing fully instrumented and automatically controlled fractionating columns. The authors recommend that the centre for the production of solvents for the manufacture of copolymers should be situated in Groznyy because of its resources in raw materials. There are 1 figure and 4 tables.

ASSOCIATION: GrozNII, GNPZ

Card 1/1



GVOZDETSKIY, L.A.; KAZ'MIN, G.I.; KASATKIN, V.A.; SEMENOV, B.S.

At the petroleum refineries of the U.S.A. Khim.i tekhn.toPl.i  
masel 6 no.6:68-72 Je '61. (MIRA 14:7)  
(United States—Petroleum refineries)

KAZ'MIN, Grigoriy Ivanovich; GVOZDETSKIY, Lev Andreyevich; KASATKIN,  
~~Viktor Aleksandrovich~~; SEMENOV, Boris Sergeyevich;  
YENISHERLOVA, O.M., ved. red.; BASIMAKOV, G.M., tekhn. red.

[Petroleum refineries of the U.S.A.] Neftepererabatyvaiushchie  
zavody SShA. Moskva, Gostoptekhizdat, 1962. 332 p.  
(MIRA 15:10)

(United States--Petroleum--Refineries)

KAZ'MIN, G.I.

Designing powerful petroleum refineries to be built. Khim. i  
tekh. topl. i masel 9 no.12:64-65 D '64. (MIRA 18:2)

L 18474-66	ENT(m)/EWP(v)/T/EWP(t)/EWP(k)	JD/HM
ACC NR: AR6003960	SOURCE CODE: UR/0137/65/000/012/EO36/EO36	
AUTHOR: <u>Kaz'min, G. S.; Noskov, D. A.; Pankovets, N. G.; Proskurovskiy, D. I.; Sudakov, V. I.; Shangin, A.S.</u>		
ORG: none	4455	45 B
TITLE: <u>Electron-beam welding of materials in a vacuum</u>		
SOURCE: Ref. zh. Metallurgiya, Abs. 12E283		
REF SOURCE: Sb. dokl. k Novosib. nauchno-tekhn. konferentsii po mashinostr. Ch. 1. Novosibirsk, 1964, 115-122		
TOPIC TAGS: electron beam welding, vacuum welding, metal cutting		
TRANSLATION: The authors describe the advantages of the electron-beam method for welding metal over other methods. Units are described for welding, drilling and cutting metals with the use of an electron beam. These installations were developed in the Department of Electronic Devices at the Tomsk Institute of Radioelectronics and Electronic Technology. V. Fomenko [JPRS]		
SUB CODE: 13		
Card 1/1	UDC: 621.797.72	

9/139/59/000/05/003/026  
E032/E114

AUTHOR: Kaz'min, G.S.

TITLE: An Accelerating Tube for a High Intensity Electron Beam <sup>17</sup> <sub>21</sub>

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,  
Fizika, 1959, Nr 5, pp 14-18 (USSR)

ABSTRACT: A description is given of the electron-optical system of an accelerating tube with electrostatic focussing and working in the space charge limited region. The electron-optical scheme is shown in Fig 1. The experimental tube (250 kV) is shown in Fig 2. Its body is 76 cm long and consists of two identical glass sections 1. The tungsten cathode which is in the form of a plain spiral 2 gives an emission current of up to 6 amps at 200 watts. The working life of the tube is 10 - 20 hours. The tube is supplied by the pulse transformer 4, and the voltage distributed along the tube sections is derived from the water potential divider (in rubber tube) 5. The current intercepted by the Faraday cup 3 at 100 kV was found to be 0.44 amp for  $\alpha = 2.5$  ( $\alpha$  is the ratio of voltages on the electrodes of the lens (cf Fig 1)). At 250 kV this current was found to be 1.7 amp. It is shown that

Card  
1/2



KAZ'MIN, G.S.; KASSIROV, G.M.; KREYNDEL', Yu.Ye.; LAPTEVA, T.I.

Some aspects of constructing accelerator tubes for high  
currents. Izv. TPI 122:108-115 '62. (MIRA 17:9)

ACC NR: AR7002221 (AN) SOURCE CODE: UR/0275/86/000/010/A011/A011

AUTHOR: Kaz'min, G. S.; Noskov, D. A.; Pankovets, N. G.; Sudakov, V. I.; Proskurovskiy, D. I.

TITLE: Electron-beam welding of leads in electrovacuum devices

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 10A74

REF SOURCE: Tr. Tomskogo in-ta radioelektron. i elektron. tekhn., no. 4, 1965, 112-114

TOPIC TAGS: electron beam welding, tungsten ~~welding~~, nickel ~~welding~~, flux, ~~electron beam~~, ~~tungsten-nickel wire~~ *electrovacuum, electrovacuum equipment, weld evaluation*

ABSTRACT: An experimental investigation was made of electron-beam welding of leads in electrovacuum equipment, which were made of tungsten and nickel components. Acted upon by the accelerated and focused electron beam in vacuum, the tungsten component generates the heat which fuses the ends of the two wires. The leads are welded on an electron beam device. The components to be welded are fastened to a mandrel, placed in the operating chamber. During welding, the com-

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UDC: 621.3.032

ACC NR: AR7002221

ponents are brought to a distance at 0.2—0.3 mm. The nickel component is fed the tungsten component by a spring mounted on the mandrel. An unetched microscopic analysis 500X showed no defects in the weld. The weld was dense, without pores, cracks, and inclusions. [Translation of abstract]

[NT]

SUB CODE: 13/

Card 2/2

USSR/Cultivated Plants - Fruits: Berries:

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15767

G. M. Kaz'min

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour : Ref Zhur - Bioli, No 7, 1958, 30034

Author : Kaz'min, G.T.

Inst : The Far Eastern Scientific Research Institute for Agriculture.

Title : The Voylochnaya (Felt-like) Sour Cherry.

Orig Pub : Naucka i peredovoy opyt v s. kh., 1957, No 1, 38-40

Abstract : The Voylochnaya (felt-like) variety sour cherry is described which was developed at the Far Eastern Scientific Research Institute for Agriculture by methods of analytical selection and hybridization with the sand cherry. The hybrid varieties were characterized by strong growth, resistance to red rot and "cherry-pockets" and by their rapid fruit bearing. Ten elite and 16 candidates for the elite and many prospective saplings were classified.

Card 1/2

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53815

Author : Kaz'min, G.T.

Inst : Far Eastern Scientific Research Institute of Agriculture

Title : Some Agrotechnical Problems in Growing Plum Seedlings.

Orig Pub : Byul. nauchno-tekhn. inform. Dal'nevost. n.-i. in-ta s. kh., 1957, No 4, 42-44

Abstract : The blossoms of the apricots cultivated in the region of Emilin (Italy) are frequently subjected to frosts in the spring. It was, therefore, necessary to raise later blossoming varieties of apricot. The latest blossoming variety is Ril Umola. In 1954 and in 1955, the author isolated on the Ril Umola tree one branch which blossomed later than the mother tree but produced earlier (by 8-10 days) ripening fruit. This branch was used for grafting

Card 1/2



KAZ'MIN, Grigoriy Tikhonovich, kand. sel'khoz. nauk; FARKOVA, S.M., red.;  
~~KAYDALOVA, M.D., tekhn. red.~~

[Collective and individual orchards in the Far East] Kollektivnyi i  
priusadebnyi sad na Dal'nem Vostoke. Khabarovsk, Khabarovskoe knizhnoe  
izd-vo, 1960. 189 p. (MIRA 14:12)  
(Soviet Far East—Fruit culture)

L 42055-66 ENT(d)/T/ENT(1) IJP(c) BB/GG/BC

ACC NR: AP6016143

SOURCE CODE: UR/0103/66/000/005/0204/0206

AUTHOR: Kazdin, G. T.

ORG: none

TITLE: Second All-Union Conference on Bionics

SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 204-206

TOPIC TAGS: bionics, medical conference, medical personnel, biologic personnel, information processing, animal physiology, pattern recognition, nervous system, animal communication, cybernetics, computer memory, biophysics, human sense, man machine communication, biologic computer

ABSTRACT: The Second All-Union Conference on Bionics, organized by the Academy of Sciences USSR, the Ministry of Higher and Secondary Specialized Education, the Academy of Medical Sciences USSR, and the All-Union Scientific-Technical Society for Radio Engineering and Telecommunication imeni A. S.

Popov, held at Moscow State University from 20 to 24 December 1965, was attended by some 1000 scientists and engineers from the USSR, Bulgaria, and Hungary. Among the participants were 600 radio, electrical, mechanical, and automation engineers and specialists in computer technology and cybernetics; 180 biologists, physiologists, and physicians; and 180 physicists, mathematicians, psychologists, chemists, philosophers, and other specialists. Six papers were presented in the plenary sessions and 100 in the various sections.

Cord 1/5

UDC: 546.821

106  
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L 42055-66

ACC NR: AP6016143

Academician A. I. Berg and Prof. B. S. Sotskov presented a paper entitled "Present status and trends in the development of bionics" dedicated to general problems of bionics. ~~It is noted out that the most~~ important results and studies in bionics in the last few years were associated with the processes of receiving and processing information. These include studies concerned with the design of quick-response, reliable, small, and economical elements on the basis of the performance of receptors and analyzers in animals (ear, eye, olfactory organs, and others); with the structure of orientation and navigation systems in animals; and, on the basis of these studies, with the design of response devices and new navigation and communication systems. A great deal of attention has been paid to developing information-transforming devices and systems, to evaluating and storing information, to constructing neuron and neural net models, to searching for new methods for solving complex problems, in particular, to developing heuristic programming methods and to developing bionics aspects in pattern recognition problems. The opinion is expressed that important results can be expected in designing high-quality amplifying, relay, and logic elements and devices which ensure the separation of signals from noise and also in searching for new methods and physical principles for time-dependent and spatial selection of signals. A series of bionics problems were indicated which the authors considered urgent.

N. P. Naumov, S. N. Simkin, V. D. Il'ichev, and V. R. Protasov presented a paper entitled "Means of communication in animals and their modeling" in which the problem of controlling the behavior of a large number of animals is discussed.

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ACC NR: AP6016143

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ber of wild animals on the basis of modeling the signals (chemical, optical, acoustic) serving as means of communication between the animals is analyzed.

In a paper entitled "The problem of modeling a universal sensor," Ya. A. Vinnikov analyzed the receptor cells of various sensing organs from a single point of view.

In the paper by L. P. Krayzmer entitled "Modern concepts of the human memory and bionic means for designing the memories of cybernetic machines," the peculiarities of the human memory are analyzed, and its capacity, specific capacity, and efficiency as compared with computer memories are evaluated. The course of further studies of the memories of biological systems is outlined. 160

The paper by S. Ye. Kleinenberg and N. V. Kokshayskiy entitled "Modern problems in biological aero- and hydrodynamics," presented at the closing plenary session, analyzes the problem of modeling the adapting process of flying or swimming animals, ensuring high velocities at low loss of energy. A critical analysis of attempts to explain why the hydrodynamic resistance of swimming animals is low is presented.

In the last paper presented at the plenary session by K. B. Karandeyev, B. I. Puchkin, M. Ya. Subbotin, and Ya. D. Finkinshteyn, entitled "Certain general regularities in chemical reception illustrated by means of the example of an odor perception mechanism," a series of general principles in the structure of neural mechanisms which execute the task of chemical reception are presented.

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L 42055-66

ACC NR: AP6016143

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The other hundred papers were presented in five sections: 1) receptors, analyzers and pattern recognition; 2) neural organization and bionic aspects in reliability; 3) bionic aspects in control, regulation, and in the man-automation problem; 4) orientation and navigation in animals; 5) biomechanics and bioenergetics. The chairmen of these sessions were: Corresponding Member of the Academy of Sciences USSR G. V. Nikol'skiy; and Professors N. P. Naumov, S. N. Braynes, L. P. Krayzmer, A. B. Kogan, A. V. Netushil, V. V. Chavchanidze, S. F. Manziya, Ya. A. Vinnikov, and L. O. Belopol'skiy. The many problems analyzed in the sections included the organization of structures which realize pattern recognition processes, algorithmization of these processes, the connections between learning and pattern recognition, and the design of devices simulating the various stages of the recognition process. A series of papers were dedicated to the synthesis of formal neurons, the relation between the reliability of the brain and its probabilistic-statistical organization, modeling the axodendritic sphere of a neuron, and the design of memory devices on the basis of biological systems. A great deal of attention was paid to papers concerning the effect of electromagnetic phenomena on biological memory systems in man and on machine memories, the motor processes and the mechanisms for controlling them, and behavior and search mechanisms. The problems of orientation and navigation in insects, fish, and birds and of constructing of models on the basis of data obtained from studying the motor organs of animals were analyzed.

Card 4/5

AID P - 3825

Subject : USSR/Geology  
Card 1/1 Pub. 78 - 13/25  
Author : Kaz'min, M. M.  
Title : The Kungur oil of Bashkiriya  
Periodical : Neft. khoz., v. 33, #11, 69-70, N 1955  
Abstract : The geological survey made by 500-700 m test well drillings of the eastern slopes of the Russian nappe west of the Ural Mountains in the Kungur District of Bashkiriya has shown an extensive formation of oolitic dolomites in the Permian horizon. Up to now this kind of rock did not yield oil, but the author considers that new trials must be made and new methods developed and applied for oil recovery in this section.  
Institution : None  
Submitted : No date

KAZ'MIN, M.M.

Oil-bearing potentials of carbonate deposits in the Bashkirian  
Paleozoic. Geol. nefi 1 no.9:49-52 S '57. (MLRA 10:9)

1. Ob'yedineniye Bashneft'.  
(Bashkiria---Petroleum geology)

*KAZ' MIN. M.M.*  
OVINESOV, G.P.; KAZ' MIN. M.M.

New data on the geology of oil- and gas-bearing regions in  
Bashkiria. Sov. geol. 1 no.1:114-127 Ja '58. (MIRA 11:4)

1. Ob'yedineniye "Bashneft", g. Ufa.  
(Bashkiria--Petroleum geology)  
(Bashkiria--Gas, Natural--Geology)



KAZ'MIN, N. (Tambov)

The night came... Pozh.delo 9 no.7:16 J1 '63. (MIRA 16:10)

VASIL'YEVA, N.; KAZ'MIN, N.; UL'YANOV, V.

Resolutions of Women's Councils. Pozh.delo 8 no.3:6-7 Mr '62.  
(MIRA 15:4)

(Tambov Province--Women in public life) (Fire prevention)

LUKIN, V.; YAROVAYA, N., studentka (Voronezh); KAZ'MIN, N. (Tambov); KATS, I.

Everyday affairs of volunteer firemen. Pozh.delo 9 no.2; 6 F '63.  
(MIRA 16:3)

1. Nachal'nik uchebnogo punkta Leningradskogo oblastnogo i  
gorodskogo dobrol'nogo pozhnarnogo obshchestva (for Kats).

KAZMIN, N. I.

23346 Avtomaticheskii Tkatskiy Stanok Kananina. Tekstil. Prom-St', 1949, No. 6,  
c. 34-36

SO: LETOPIS NO. 31, 1949

KAZ'MIN, N.I.

Siberia is building roads. Transp. stroi. 14 no.1:2-3 Ja '64.  
(MIRA 17:8)

1. Nachal'nik Glavnogo upravleniya zheleznodorozhnogo stroitel'stva Urala i Sibiri.

KAZ'MIN, N.I.

Prepare in time for work in cold weather. Transp. stroi. 14  
no.10:2-3 0 '64. (MIRA 18:3)

1. Nachal'nik Glavnogo upravleniya zheleznodorozhnoy svyazi  
Urala i Sibiri.

KAZMIN, N.T.; ZHIVOV, K.I.; MAKAROV, A.V., retsenzent; KUPRIYANOV, P.S.,  
retsenzent.

[Knotting machines in the weaving industry] Usloviaval'nye ma-  
shiny tkatskogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-  
vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia,  
SSSR, 1953. 76 p. (MLRA 7:8)  
(Textile machinery)

KAZMIN, N.T.

Uzloviazal'nye mashiny tkatskogo proiz-  
vodstva (Knotting machines in the weaving industry).  
Moskva, Gizlegprom, 1953. 80 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954



KAZ'MIN, N.T.; MAKAROV, A.V.

Choosing the type of a sizing machine for the cotton industry.  
Tekst.prom. 15 no.6:27-28 Je '55. (MIRA 8:7)  
(Sizing (Textile)) (Textile machinery)

KAZMIN, Nikolay Tikhonovich; ZHIVOV, Kirill Ivanovich; KUPRIYANOV, Fedor  
Sergeyevich; SIMAKIN, V.V., redsentsent; SEGEL', N.M., redaktor;  
DMITRIYEVA, N.I., tekhnicheskij redaktor

[Reeding section and knotting machines of the weaving industry]  
Probornyi otdel i usloviyazal'nye mashiny tkatskogo proizvodstva.  
Moskva, Gos. nauchno-tekhn. izd-vo M-vs legkoi promyshl.SSSR,  
1957. 182 p. (MLEA 10:6)  
(Weaving)

KAZMIN, N.T.

KAZMIN, N.T., inzh.

Special characteristics of the AT-100-2 automatic loom.

Tekst.prom. 17 no.12:26-29 D '57.

(MIRA 11:1)

(Looms)

KAZMIN, N.T.

The AT-100-5 automatic loom. Biul.tekh.-ekon.inform. no.2:39-41  
'58. (MIRA 11:4)

(Looms)

KAZMIN, N.T.

New SD-110 shearing machine. Tekst.prom. 19 no.10:44-48  
0 '59. (MIRA 13:1)

1. Starshiy inzhener Upravleniya tekstil'noy i trikotazhnoy  
promyshlennosti Mosgorsovnarkhoza.  
(Textile machinery)

IL'ICHEV, Vasily Fedorovich; KAZMIN, Nikolay Tikhonovich; SIMAKIN, V.V.,  
retsensent; GOLUBEV, N.M., red.; SOKOLOVA, V.Ye., red.;  
SHVETSOV, S.V., tekhn.red.

[Redesigning of weaving equipment for the cotton industry]  
Modernizatsiia tkatskogo oborudovaniia v khlopchatobumazhnoi  
promyshlennosti. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR,  
1961. 116 p. (MIRA 15:2)  
(Looms) (Cotton manufacture--Equipment and supplies)

KAZ'MIN, Petr Alekseyevich; NILOV, A., otv.red.; MEDVEDEV, E., red.;  
NIKITINA, V., tekhn.red.

[Seven-year plan of the Kaliningrad Economic Region] Semi-  
letka Kaliningradskogo ekonomicheskogo raiona. Kaliningrad,  
Kaliningradskoe knizhnoe izd-vo, 1959. 19 p. (MIRA 13:2)  
(Kaliningrad Province--Economic policy)

KAZIMIN, S. D.



Kazimierz S.D

in the presence of sodium: (1)  $\text{C}_6\text{H}_6$  and (2)  $\text{C}_6\text{H}_5\text{Cl}$ . The results are given in Table I. It is seen that the rate of reaction is much faster in the case of  $\text{C}_6\text{H}_6$  than in the case of  $\text{C}_6\text{H}_5\text{Cl}$ . This is due to the fact that the reaction of  $\text{C}_6\text{H}_6$  with  $\text{H}_2\text{O}_2$  is a free radical reaction, while the reaction of  $\text{C}_6\text{H}_5\text{Cl}$  with  $\text{H}_2\text{O}_2$  is an ionic reaction. The hydroperoxides which more rapidly decompose in the chain. The hydroperoxides which more rapidly decompose in the chain.

17

S/021/60/000/006/015/019  
A153/A029

AUTHORS: Kucher, R.V.; Kaz'min, S.D.

TITLE: On Thermal Decomposition<sup>1</sup> of Cumene Hydroperoxides in Solubilized  
Aqueous Solutions

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi RSR, 1960, Nr. 6, pp. 817 - 820 ✓

TEXT: Furthering a study conducted by A.Y. Yurzhenko and F.Y. Hrobshteyn (Ref. 2) the authors investigated the effects of solubilization of cumene hydroperoxide upon the rate of its thermal decomposition. Cumene hydroperoxide with a purity of 99.2% was treated in a medium of pure nitrogen in glass vials. Solubilization effects were also studied on vials, which for the sake of a complete saturation were agitated with solubilized solutions during 10 - 12 hours at 20°C. The results are as follows: the thermal stability of hydroperoxides in aqueous solutions is determined to a great extent by their solubility in the presence of an emulsifier. The value of cumene hydroperoxide solubilization in aqueous solutions of Nekal greatly influences the rate of its thermal decomposition. The solubility of hydroperoxide in diluted Nekal solutions (up to 2%) is decreased

Card 1/2

YENAL'YEV, V.D.; KAZ'MIN, S.D.; KUCHER, R.V.

Initiation of the emulsion oxidation of isopropylbenzene and 1, 1-diphenylethane by hydrogen peroxide. Sbor. nauch. rab. Inst. fiz. i org. khim. AN BSSR no.8:126-131 '60. (MIRA 14:3)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko.  
(Cumene) (Ethane) (Hydrogen peroxide)

KUCHER, R.V.; KAZ'MIN, S.D.; YURZHENKO, A.I.

Some kinetic characteristics of the emulsion oxidation of hydrocarbons. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR  
no.8:132-137 '60. (MIRA 14:3)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko.  
(Hydrocarbons) (Oxidation).

81410

S/020/60/132/06/35/068  
B004/B005

5.3200

AUTHORS:

Kucher, R. V., Kaz'min, S. D., Yenal'yev, V. D.

TITLE:

On the Possibility of Increasing the Yield in Hydroperoxide  
by Initiating the Cumene Oxidation With Hydrogen Peroxide ||

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6,  
pp. 1348-1351

TEXT: The authors discuss the process of initiation of a chain reaction<sup>1</sup> on the basis of papers by N. M. Emanuel' (Ref. 1) and N. N. Semenov (Ref. 2). In previous papers by the authors (Refs. 3, 4) it was observed that in the case of initiation of oxidation of isopropyl benzene by means of  $H_2O_2$  the effect depends on the point of time of adding the initiator (Fig. 1A). An addition at the beginning of oxidation effects neither acceleration of the reaction nor reduction of the induction period. Only if  $H_2O_2$  is added at later points of time when the reaction becomes slower, it effects an acceleration so that the hydroperoxide yield rises

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On the Possibility of Increasing the Yield  
in Hydroperoxide by Initiating the Cumene  
Oxidation With Hydrogen Peroxide

S/020/60/132/06/35/068  
B004/B005

from 40 to 80%. Hence, the authors conclude that the by-products developing during oxidation exert an inhibiting influence which is eliminated by  $H_2O_2$ . They confirmed this conclusion by adding phenol as an inhibitor the effect of which was really eliminated by  $H_2O_2$  (Fig. 1B). Equations are written down for the kinetics of the reaction  $A \rightarrow B \rightarrow C$ , with the product B undergoing degenerated branching, and C interrupting the reaction chain; Fig. 2 shows the function  $\eta = f(\tau)$  for various values of  $\beta$  ( $\eta = B/A$ ,  $\tau = A\sqrt{h/g}$ ,  $h$  = rate constant of degenerated branching,  $g$  = rate constant of the interruption of reaction,  $\beta = k_3\sqrt{A/hg}$ ,  $k_3$  = constant of the reaction rate for C). The later the  $H_2O_2$  is added, the more intensive is its initiating effect. There are 2 figures and 6 references: 5 Soviet and 1 Swedish.

ASSOCIATION:

L'vovskiy gosudarstvennyy universitet im. Ivana Franko  
(L'vov State University imeni Ivan Franko)

Card 2/3

28291

S/076/61/035/010/010/015

B106/B230

54300 also 1375

AUTHORS: Kucher, R. V., Kaz'min, S. D., and Yenal'yev, V. D.

TITLE: Initiation of emulsion oxidation of alkylated aromatic hydrocarbons by hydrogen peroxide

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 10, 1961, 2322 - 2327

TEXT: The authors investigated the initiation by hydrogen peroxide in emulsion oxidation of isopropyl benzene, 1,1 diphenyl ethane, and 1-phenyl-1-p-tolylethane in the liquid phase, this problem being of great practical interest in the synthesis of hydroperoxide compounds. Oxidation was conducted at 85°C in "air lift" type glass vessels in which the reaction mixture was agitated by air bubbling in through a porous glass partition. For the aqueous phase, a 0.1 N soda solution was used in all tests. The volume ratio of the hydrocarbon phase to the aqueous phase was 1:3. At regular intervals, samples were taken and the hydroperoxide content was determined iodometrically by potentiometric titration (Ref. 5: see below). Oxidation of the alkylated aromatic hydrocarbons referred to proceeds in emulsion systems by autocatalysis. The effect of hydrogen

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28291

S/076/61/035/010/010/015

Initiation of emulsion oxidation of ...

B106/B230

progressing reaction. This hypothesis was confirmed by an experiment in which hydrogen peroxide was introduced into a reaction retarded by an inhibitor. For this purpose, the oxidation of cumene was inhibited by adding a small quantity (0.01 g-mole/liter) of phenol breaking down the oxidation chains according to reaction  $C_6H_5OH + R' \rightarrow C_6H_5O' + RH$ . The  $C_6H_5O'$  radicals are of low activity, and recombine. Adding hydrogen peroxide eliminated the inhibition of the reaction, and caused a steep rise of the oxidation rate. When during the reaction, oxidation products combine with initiator radicals to form radicals similar to chain radicals in their activity, initiation results in increasing the total oxidation rate. In the reverse case, the consumption of components reacting with initiator radicals is accelerated and the total reaction rate decreases. Also in this case, the effect of a brief initiation at the final stage of oxidation may be favorable for the process. The effect of an initiator therefore depends on the reactivity of the components of the reaction mixture. There are 3 figures and 7 references: 5 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: Ref. 5: V. Kokatnur, M. Jelling, J. Amer. Chem. Soc., 63, Card 3/4

X

Initiation of emulsion oxidation of ...

<sup>28291</sup>  
S/076/61/035/010/010/015  
B106/B230

1432, 1941; J. W. Fordham, H. L. Williams, Canad. J. Chem., 27B, 913, 1954.

ASSOCIATION: L'vovskiy universitet im. Iv. Franko (L'vov University imeni Iv. Franko)

SUBMITTED: March 3, 1960

X

Card 4/4



KUGHER, R.V.; KAZ'MIN, S.D.

Emulsion oxidation of alkyl aromatic hydrocarbons under pressure.  
Part 1: Kinetic laws governing the accumulation of the main  
products during the oxidation of isopropylbenzene and 1,1-dip-  
henylethane. Kin. i kat 2 no.2:263-266 Mr-Ap '61. (MIRA 14:6)

1. L'vovskiy gosudarstvennyy universitet i Ukrainskiy nauchno-  
issledovatel'skiy institut poligraficheskoy promyshlennosti.  
(Cumene) (Ethane)

KUCHER, R.V.; KAZ'MIN, S.D.; KOVBUZ, M.A.

Characteristics of salt catalysis during oxidation of alkyl  
aromatic hydrocarbons. Izv.vys.ucheb.zav.; khim.i khim.tekh. 4  
no.6:971-976 '61. (MIRA 15:3)

1. L'vovskiy gosudarstvennyy universitet imeni Franko, kafedra  
fizicheskoy i kolloidnoy khimii.  
(Salts) (Catalysis) (Oxidation) (Hydrocarbons)

KUCHER, R.V.; KOVBUZ, M.A.; KAZ'MIN, S.D.

Alkaline oxidation of isopropylbenzene. Ukr.khim.zhur. 27  
no.5:658-663 '61. (MIRA 14:9)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko.  
(Cumene) (Oxidation)

KAZ'MIN, S.D.; KUCHER, R.V.

Activation energy of chain propagation during the oxidation of  
isopropylbenzene and 1, 1-diphenylethane. Zhur.ob.khim. 31  
no.10:3171-3174 0 '61. (MIRA 14:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligraficheskoy  
promyshlennosti.

(Cumene) (Ethane) (Oxidation)

KUCHER, R.V.; KAZ'MIN, S.D.

Mechanism of the formation of carbonyl compounds and acids in  
emulsion oxidation of isopropylbenzene. Dokl. AN SSSR 139  
no.5:1114-1116 Ag. '61. (MIRA 14:8)

1. L'vovskiy gosudarstvennyy universitet im. Iv. Franko.  
Predstavleno akademikom V.N. Kondrat'yevym.  
(Carbonyl compounds) (Cumene)

KAZ'MIN, S.D.

Initiation of degenerate chain branching reactions with  
quadratic chain termination. Zhur. fiz. khim. 35 no.5:1166-  
1167 My '61. (MIRA 16:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligrafi-  
cheskoy promyshlennosti.

(Chemical reaction, Rate of)

KUCHER, R.V.; KAZ'MIN, S.D.; YENAL'YEV, V.D. (Lvov)

Hydrogen peroxide initiation of the emulsion oxidation of alkyl  
aromatic hydrocarbons. Zhur.fiz.khim. 35 no.10:2322-2327 0  
'61. (MIRA 14:11)

1. L'vovskiy universitet imeni Iv. Franko.  
(Hydrocarbons) (Hydrogen peroxide)

KUCHER, R.V.; KAZ'MIN, S.D.

Emulsion oxidation of alkyl aromatic hydrocarbons under pressure.  
Part 3: Effect of hydrogen peroxide on the reaction of oxidation  
of isopropylbenzene and 1,1-diphenylethane. Kin.i kat. 3 no.1:  
31-35 '62. (MIRA 15:3)

1. L'vovskiy gosudarstvennyy universitet imeni Franko.  
(Cumene) (Ethane) (Hydrogen peroxide)



KAZ'MIN, S.D.

Mechanism of isopropylbenzene oxidation in weak-alkaline emulsions. Zhur.prikl.khim. 35 no.2:422-429 F '62.

(MIRA 15:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligraficheskoy promyshlennosti.

(Cumene) (Oxidation)

KAZ'MIN, S. D.

Oxidation of acetophenone initiated by peroxide compounds.  
Zhur. ob. khim. 33 no.1:282-285 '63. (MIRA 16:1)

(Acetophenone) (Peroxides)

KAZ'MIN, S.D.

Rate of initiated chain reactions with "quadratic" chain termination  
as a function of the activity of initiator radicals. Kin. i kat. 5  
no.3:534-537 My-Je '64. (MIRA 17:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligraficheskoy  
promyshlennosti, L'vov.

YERUSALIMSKIY, A.I. [deceased]; KAZ'MIN, S.D.

Effect of some antitumoral preparations on the kinetics of  
chain reactions. Ukr.khim.shur. 31 no.5:521-524 '65.  
(MIRA 18:12)

1. Submitted October 22, 1964.

KAZ'MIN, S.D.; PETROV, L.N.

Saponification of Na-salt of dioctyl ester of sulfocinnamic  
acid in an emulsion system in the presence of nitric acid.  
Zhur.prikl.khim. 38 no.11:2605-2606 N '65.

(MIRA 18:12)

1. Submitted September 10, 1963.

KAZMIN, Vjaceslav, sanitetski pukovnik, prof., dr.; ZAJIC, Zivorad,  
sanitetski potpukovnik, dr.

Aplasia and torsion of the liver. Vojnosanit. pregl. 19 no.4:  
298-300 Ap '62.

1. Vojnomedicinska akademija u Beogradu, Klinika za hirurske  
bolesti.

(LIVER DISEASES)

5

KAZMIN, Vjaceslav, sanitetski pukovnik, prof., dr.

Prolapse of the anus and rectum. Voj.san.pregl. 18 no.3:285-288  
Mr '61.

1. Vojnomedicinska akademija u Beogradu, Hirurska klinika.

(RECTUM dis) (ANUS dis)

KAZ 'MIN, V.G.; FARADZHEV, V.A.

Tectonic development of the Yarkand sector of Kunlun. Sov.  
geol. 4 no.8:45-57 Ag '61. (MIRA 16:7)

1. Vsesoyuznyy aerogeologicheskiy trest.  
(Kunlun—Geology, Structural)

PONIKAROV, V.P.; SULIDI-KONDRAT'YEV, Ya.D.; KOZLOV, V.V.; KAZ'MIN, V.G.

Tectonics of the northern part of the Arabian Platform.

Sov. geol. 7 no.1:39-48 Ja '64.

(MIRA 17:6)



KAZ'MIN, V.G.; MIKHAYLOV, I.A.; SHATSKIY, V.N.

Rift structures in northwestern Syria. Sov. geol. 7 no.6:81-92  
Jo '64 (MIRA 18:1)

KAZ'MIN, V.G.; KULAKOV, V.V.

Ophiolite formation of northwestern Syria. Izv.vys.ucheb.zav.;  
geol. i razv. 8 no.2:3-14 F '65. (MIRA 18:3)

1. Vsesoyuznyy aerogeologicheskij trest.

PONIKAROV, V.P.; KAZ'MIN, V.G.

Pre-Cambrian and Paleozoic of the northwestern part of the  
Arabian Peninsula. Sov. geol. 8 no.3:89-99 '65.  
(MIRA 18:5)

KAZ'MIN, V.G.

Characteristics of the convergence of the ancient platform and  
Alpine geosyncline area in northeastern margin of the Mediter-  
ranean Sea. Bul. MOIP Otd. geol. 40 no. 6:43-56 N-D '65  
(MIRA 19:1)

KAZ'MIN, V.M.; VOZDVIZHENSKIY, B.I., prof., red.; BEKMAN, Yu.K., vedushchiy  
red.; POLOSINA, A.S., tekhn.red.

[Test-well drillers] Buril'shchik strukturnogo burenia. Pod red.  
B.I.Vozdvizhenskogo. Moskva, Gos.nauchno-tekhn.izd-vo nef. i  
gorno-toplivnoi lit-ry, 1952. 247 p. (MIRA 13:12)  
(Oil well drilling)

KAZ'MIN, V.M.; KAZ'MIN, V.S.; DUBROVINA, N.D., vedushchiy red.;  
MUKHINA, E.A., tekhn.red.

[Master's manual on drilling in structural areas] Spravochnik  
burovogo мастера структурного бурения. Moskva, Gos.nauchno-  
tekhn.izd-vo nefi.i gorno-toplivnoi lit-ry, 1958. 448 p.  
(MIRA 11:1)

(Boring)

MILOSLAVSKIY, Ya.M.; MILESŁAVSKAYA, L.I.; LEONOVA, V.; KAZ'MIN, V.

Effect of certain neurotropic substances on the adrenal cortex.

Report No. 1. Probl. endok. i gorm. 6 no. 3:12-14 My-Je '60.

(MIRA 14:1)

(ADRENAL CORTEX) (PHARMACOLOGY)

ACC NR: AP7004555

SOURCE CODE: UR/0213/66/000/006/0090/0100

AUTHOR: Kazmin, V. N.; Orlov, I. V.

ORG: none

TITLE: Problem of the principles of compilation of geochemical maps during a geological survey

SOURCE: Sovetskaya geologiya, no. 6, 1966, 90-100

TOPIC TAGS: geochemistry, geologic survey

ABSTRACT:

Since the principal scale of geological mapping in the USSR is 1:50,000, it follows that this should be the main scale for geochemical mapping. This paper is a detailed presentation of a method used in compiling geochemical maps at this scale simultaneously with geological field work. The study is based on work done in an unforested area in Kazakhstan with good exposure of surface rocks -- an area of complex geological structure with ore shows. The article is significant due to the detail with which it describes all stages in map compilation, from preparations for field work to preparation of the final map and the method could be used for other regions of comparable characteristics. The principles of such work are described, followed by comments on the

Card 1/2

UDC: 550.84:528.912

0926 1384

ACC NR: AP7004555

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field work method and step-by-step description of the statistical processing of data and map plotting. The final geochemical map is used together with cross sections and a histogram which accompanies it and in combination with a map of the structural geology of the same quadrangle. The map can serve as a basis for predicting the occurrence of ore deposits or indicating areas promising for prospecting work. When this work is done simultaneously with a geological survey the cost of the latter is increased by approximately 20-30%. Orig. art. has: 1 figure.  
(JPRS: 38,460)

SUB CODE: 08 / SUBM DATE: none / ORIG REF: 006

Card 2/2

UDC: 550.84:528.912



KAZ'MIN, V.S.

The URB-ZA drilling unit, Neft,khoz.32 no.2:16-19 F '54.

(MLRA 7:2)

(Petroleum--Well boring)

KAZIMIN, V. S.

Subject : USSR/Mining AID P - 493  
Card 1/1 Pub. 78 - 7/27  
Author : Kaz'min, V. S.  
Title : Modernized drilling equipment U.R.B-3 AM  
Periodical : Neft. Khoz., v. 32, #6, 30-31, Ju 1954  
Abstract : The author describes improvement of various details of the drilling equipment URB-3AM concerning the rotary table, couplings, friction gears, controlling levers, etc. The arrangement of the details are shown on a diagram.  
Institution : None  
Submitted : No date

KAZ'MIN, V.S.

Album of Spare Parts for Machine KAM-500. Gostoptekhnizdat. 1955, 80 p, price: rubles 2.40. In book are presented sketches of the basic units and spare parts to the machine; there is given a short manual for assembling and dis-assembling of structural-mapping (?) equipment, and also principal rules of its use. Handbook is intended for master drillers, mechanics and petroleum-exploration engineers and workers in repair machine shops.

So: A.- 3080689

AID P - 2689

*Kaz'min, V. S.*

Subject : USSR/Mining

Card 1/1 Pub. 78 - 7/21

Author : Kaz'min, V. S.

Title : ~~Industrial testing of the URB-4p drilling instal-~~  
lation

Periodical : Neft. khoz., 33, 5, 32-36, My 1955

Abstract : This article describes the URB-4p movable drilling rig manufactured by the Kungur Machine-Building Plant. It consists of a machine section on caterpillars, a pumping section on skids or sliding undercarriage, and an assembly derrick movable on a sliding undercarriage. This movable rig can be used for exploratory or shallow drillings not exceeding 4,000 feet. Technical specification data are given, as well as a diagram and a photo of the installation.

Institution : None

Submitted : No date

KAZ'MIN, V.S.

Field trials of URB-2A drilling rigs. Neft.khoz. 34 no.5:6-8 My '56.  
(MLRA 9:8)

(Oil well drilling--Equipment and supplies)

KAZMIN, V.S.

KAZMIN, V.M.; KAZMIN, V.S.; DUROVINA, N.D., vedushchiy red.;  
MUKHINA, E.A., tekhn.red.

[Master's manual on drilling in structural areas] Spravochnik  
burovogo мастера структурного бурения. Moskva, Gos.nauchno-  
tekhn.izd-vo nefi i gorno-toplivnoi lit-ry, 1958. 448 p.  
(MIRA 11:1)

(Boring)

KAZ'MIN, Vadim Sergeyevich; IL'SKIY, A.L., red.; SHAKHMAJEVA, Ye.A.,  
vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Movable installations for drilling small-diameter wells]  
Peredvizhnye ustanovki dlia bureniia skvazhin malogo diametra;  
rukovodstvo po eksploatatsii. Moskva, Gos.nauchno-tekhn.izd-vo  
neft. i gorno-toplivnoi lit-ry, 1959. 356 p. (MIRA 13:3)  
(Boring machinery)

KAZ'MIN, V.S., inzh.

New units for test drilling. Bezop.truda v prom. 4 no.3:  
16-17 '60. (MIRA 13:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy  
institut neftyanogo mashinostroyeniya.  
(Boring machinery)



RAVNIN, V.S., inzh.

The BU-50 drilling unit. Bezop.truda v prom. 5 no.1:22-23 Ja '61.  
(Oil well drilling rig)

KAZ'MIN, Vadim Sergeyevich; DUBROVINA, N.D., ved. red.; POLOSINA, A.S.,  
tekhn. red.

[Handbook on geological exploratory drilling for oil and gas]  
Spravochnik po geologorazvedochnomu bureniiu na نفت' i gas.  
Moskva, Gostoptekhizdat, 1962. 506 p. (MIRA 15:10)  
(Boring)

KAZMIN, Vjeoslav, Pukovnik prof., dr.; VUJISIC, Dragutin, major dr.

Osteochondroma femoris et pelvis permagnum. Voj. san. pregl.,  
Beogr. 13 no.1-2:67-68 Jan-Feb 56.

1. Hirurska klinika VMA.  
    (OSTEOMA,  
      femur & pelvis (Ser))  
    (FEMUR, neoplasms,  
      osteoma, femoro-pelvic (Ser))  
    (PELVIS, neoplasms,  
      same)

DZHEMS-LEVI, G.Ye. (Lipetsk); KAZ'MIN, V.V. (Lipetsk)

Nomograms with uniform rectilinear scales. Nom. shor. no.2:  
133-140 '64. (MIRA 18:3)

KAMIN, M. M. ,

NIERTACZ MALOSREDNICOZYCH WIERCEN (BORER OF SMALL-DIAMETER HOLES). Translated from Russian into Polish by R. PIATKIE ICZ, Wydawnictwo Gorniczo-Hutnicze, 1955,

266 p.

KAZ'MIN, Yu.

Work organization in building elevators. Stroitel' 2 no.6:3-4  
Je '56. (MIRA 10:1)

1. Proizvoditel' rabot Alam-Atinskogo stroitel'nogo upravleniya  
tresta Sredazagotstroy.  
(Alma-Ata--Grain elevators) (Reinforced concrete construction)

KAZ'MIN, Yu.A.

Subsequences of Hermite and Laguerre polynomials. Vest.  
Mosk.un.Ser. 1: Mat., mekh. 15 no.216-9 Nr-Ap '60.  
(MIRA 13:8)

1. Kafedra teorii funktsiy Moskovskogo universiteta.  
(Sequences(Mathematics)) (Polynomials)

Kaz'min, Yu. A.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow,  
Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.  
There is 1 USSR reference. 82-83

Zukhovitskiy, S. I. (Kiyev). On a Minimum Problem of the  
Problem of Moments. 83-84

There is 1 German reference.

Kaz'min, Yu. A. (Zernovoy). On Complete Systems in  
Hilbert Spaces. 84-85

There are 2 references, 1 of which is USSR, and the  
other German.

Kozmanova, A. A. (Sverdlovsk). The Theorem of Polya for  
Entire Functions of Two Complex Variables 85

Kufarev, P. P. (Tomsk). On the Method of Parametric  
Representation and G. M. Goluzin Variational Method. 85-86

Card 26/80



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**APPROVED FOR RELEASE: 06/13/2000**

**CIA-RDP86-00513R000721410011-4"**

KAZ'IMIR, Yu.A.

Integrity of a system of functions of the form  $\{\gamma(z + \alpha_n)\}$  and  $\{\gamma^{(n)}(z)\}$   
Usp.mat.nauk 12 no.2(74):151-154 Apr '57. (MLRA 10:7)  
(Functions, Analytic) (Functions, Entire)

KAZ'MIN, Yu.A.

Spectrum of systems of the form  $\{z^n + \lambda f_n(z)\}$ . Usp.mat.  
nauk 12 no.3:155-158 My-Je '57. (MIRA 10:10)  
(Functions, Analytic) (Matrices)

AUTHOR: KAZ'MIN Yu.A. (Zernovoy)

39-4-8/9

TITLE: On the Bases and Complete Systems of Functions in the Hilbert Space (O bazisakh i polnykh sistemakh funktsiy v gil'bertovom prostranstve)

PERIODICAL: Mat.Sbornik, 1957, Vol.42, Nr.4, pp.513-522 (USSR)

ABSTRACT: The author investigates the question how far a system of functions may be different from a given complete system of the Hilbert space in order that itself still remains complete. The author starts with the assertion that by the influence of a linear bounded operator the inverse operator of which is determined uniquely, a complete system (a base) is again transferred to such one. With the aid of a lemma herefrom there follows the Theorem: Let the functions of  $\{f_n\}$  be linearly independent and  $\{g_n\}$  be a base in  $L_2$ . If the double series:

$$\sum_{i=1}^{\infty} \sum_{k=1}^{\infty} (R_i, R_k) (h_i, h_k), \quad R_n = f_n - g_n, \quad (g_n, h_k) = \delta_{nk}$$

converges, then  $\{f_n\}$  is a base. The coefficient spaces are the same for developments with respect to  $\{g_n\}$  and  $\{f_n\}$ .

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ON APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721410011-4"

$\{g_n\}$  is called strongly minimal if there exists a number  $\delta > 0$  such that the distance between an arbitrary  $g_1$  and the closed linear closure of the remaining functions of  $\{g_n\}$ ,  $n \neq 1$ , for all  $i=1,2,\dots$  is greater than  $\delta$  or equal to  $\delta$ .

Theorem: Let  $\{g_n\}$  be complete, bounded, strongly minimal and let  $H = \sup_n \|h_n\|$ ,  $(g_n, h_k) = \delta_{nk}$ . Let the system  $\{f_n\}$  be such that

$$\sum_{i=1}^{\infty} \sum_{k=1}^{\infty} |(R_i, R_k)| \leq \frac{1}{H^2}, \quad R_n = f_n - g_n. \text{ Then } \{f_n\} \text{ is complete in } L_2.$$

Let  $\{\varphi_n\}$  be a complete orthogonal, normalized system. Let  $\Lambda_\varphi$  be a set in  $L_2$  such that for  $f \in \Lambda_\varphi$ ,  $f = \sum_{k=1}^{\infty} c_k \varphi_k$ , the series  $\sum_{k=1}^{\infty} |c_k|$  converges.

Theorem: If  $\sup_n |(R_n, \varphi_k)| = \alpha_k$ ,  $R_n = f_n - \varphi_n$  and here  $\sum_{k=1}^{\infty} \alpha_k < 1$ ,

then  $\{f_n\}$  is a base in  $\Lambda_\varphi$ .

Theorem: Let  $\{\varphi_n\}$  be a complete, orthonormalized system. For  $\{f_n\}$  let  $\sup_n |(R_n, \varphi_k)| = \alpha_k$ ,  $R_n = f_n - g_n$ . In order that  $\{f_n\}$  forms a base

in  $\Lambda_\varphi$  it is necessary and sufficient that the functions  $f_n$  are linearly independent in the  $L_2$  if  $l_1$  is used as the coefficient space.

Card 2/2

SUBMITTED: May 9, 1956

3 Soviet and 6 foreign references are quoted.

AVAILABLE: Library of Congress

16(1)

AUTHOR: Kaz'min, Yu. A.

SOV/155-58-3-12/37

TITLE: Some Remarks on the Completeness of the Consecutive Derivatives of an Analytic Function (Neskol'ko zamechaniy o polnote posledovatel'nykh proizvodnykh analiticheskoy funktsii)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 3, pp 64-70 (USSR)

ABSTRACT: Let  $A_r$  be the space of functions analytic in  $|z| < r$ ,  $r < R$ . Let  $\bar{A}_1$  be the space of sequences  $\{x_n\}$  for which  $\lim_{n \rightarrow \infty} \sqrt[n]{|x_n|} < r$ . The system  $\{f_n(z)\}$  is called  $\omega$ -linearly independent on the closed set  $G$  and in the coefficient space  $\alpha$ , in symbols  $\{f_n(z)\}$   $\omega$ -linearly independent in  $(G, \alpha)$  if from

$$\sum_{n=0}^{\infty} C_n f_n(z) = 0, \quad C_i \in \alpha$$

where  $\sum_{n=0}^{\infty} C_n f_n(z)$  converges uniformly on  $G$ , there follows

$$C_i = 0, \quad i = 0, 1, 2, \dots$$

Card 1/2

Some Remarks on the Completeness of the Consecutive Derivatives of an Analytic Function

SOV/155-58-3-12/37

Theorem: Let  $f(z)$  be analytic in  $|r| < R$ . In order that

$$(1) \quad \left\{ \frac{1}{n!} f^{(n)}(z) \right\}$$

is complete in the  $A_r$  it is necessary and sufficient that (1) is  $\omega$ -linearly independent in  $(|z| \leq R-r, \bar{A}_1)$ .

Theorem: The systems  $\{f^{(n)}(z)\}$  and  $\{f^{(n)}(z+\lambda_n)\}$ , where  $|\lambda_n| \leq R-r$ ,  $\lambda_n \rightarrow \lambda$  and  $\sum_{n=0}^{\infty} |\lambda_n - \lambda_{n+1}| < \infty$ , at the same time are complete or not in the  $A_r$ .

Three examples are given. The author mentions V.L.Goncharov and M.G.Khaplanov. There are 4 references, 2 of which are Soviet, 1 Polish, and 1 French.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

SUBMITTED: April 25, 1958

Card 2/2

KAZMIN, Yu.A.

Remarks on the completeness in  $E_1$  and  $L_2$ . Usp. mat. nauk 13 no.3:  
197-203 My-Je '58. (MIRA 11:6)

(Functions, Analytic)

KAZ'MIN, Yu. A., Cand of Phys-Math Sci — (diss) "On Complete Systems and Foundations in Certain Functional Spaces," Moscow, 1959, 6 pp (Moscow State Univ im Lomonosov) (KL, 5-60, 123)



KAZIMIN, Y. A.

16(1) PHASE I BOOK EXPLOITATION SOV/2660

Vsesoyuzny matematicheskiy s'ezd. 3rd, Moscow, 1956  
Trudy. t. 4; Kratkoye soobsheniye sektsionnykh dokladov. Doklady  
Inostrannykh uchenykh (Transactions of the 3rd All-Union Mathema-  
tical Conference in Moscow. vol. 4; Summary of Sectional Reports.  
Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959.  
247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskii institut.

Tech. Ed.: G.M. Shvachko; Editorial Board: A.A. Abramov, V.D.  
Kisil'ev, E. Medvedev, A.D. Mikhailov, S.M.  
Kishinevsky (asp. M.), A.D. Ponomarev, V. V. Ponomarev, E.  
Rabinov, P. L. Gilyarov, V.A. Uspenskiy, M.O. Chetaev, G. Ye.  
Shilov, and A.I. Shirekor.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-  
Union Mathematical Conference, held in June and July 1956. The  
book is divided into two main parts. The first part contains sum-  
maries of the papers presented by Soviet scientists at the Con-  
ference that were not included in the first two volumes. The  
second part contains the text of reports submitted to the editor  
of the journal "Uspehi matematicheskikh nauk" (Advances in  
Mathematical Sciences). In these cases when the non-Soviet sci-  
entists did not submit a paper to the conference, the title  
of the paper is cited and, if the paper was printed in the  
volume, reference is made to the appropriate volume. The papers  
both Soviet and non-Soviet, cover various topics in number theory,  
algebra, differential and integral equations, function theory,  
functional analysis, probability theory, topology, mathematical  
problems of mechanics and physics, computational mathematics,  
mathematical logic and the foundations of mathematics, and the  
history of mathematics.

Kadets, M.I. (Kubryeva). Topological equivalences of cer-  
tain matrix spaces 54

Kazim, Yu. A. (Moscow). On the character of the spectrum  
of certain classes of matrices in analytic space 55

Korenblum, M. I. (Kiyev). A generalization of the Wiener  
Tauberian theorem and the spectrum of rapidly increasing  
functions 56

Kil'man, D. P. (Odessa). Certain theorems of nonlinear func-  
tional analysis and their application to the theory of local  
groups 58

Sobolev, V. I. (Voronezh). On semiordeed rings 59

Page, M. E. (Chernovtsy). Local equivalence of ordinary  
linear differential operators of equal rank (see Uspehi  
matematicheskikh nauk, XIII, Nr 1(79) (1958), pp 207-210)

Section on Probability Theory

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S/044/60/000/009/005/021  
C111/C222

/6.4600

AUTHOR: Kaz'min, Yu.A.

TITLE: On Bases of the Form  $\{z^n + f_n(z)\}$ .

PERIODICAL: Referativnyy zhurnal. Matematika, 1960, No.9, p.57,  
Abstract No.10206. Sb. nauchn. statey. Azovo-Chernomorsk. in-t  
mekhaniz. s.kh., 1959, vyp.8, ch.2, pp.110-127

TEXT: The paper consists of four parts. In the first part the author proves two theorems containing sufficient conditions that the systems of functions  $\{z^n + f_n(z)\}$  in the space of functions  $A_R$  form a quasipower with coefficients of  $A_R$ ; here  $A_R$  is the space of functions analytic in the circle  $|z| < R$ , and  $A_R$  are the numbers  $\{a_n\}$  satisfying the conditions

$\lim_{n \rightarrow \infty} \sqrt[n]{|a_n|} < \frac{1}{R}$ ,  $r \leq R$ . In the second part the author uses the proved theorems for constructing the bases with the form  $\{z^n + f_n(z)\}$ , e.g.:

$\{z^n + f^{(n)}(z)\}$ ,  $\{z^n + \frac{1}{n!} \int_0^r f(\zeta)(z-\zeta)^n d\zeta\}$ ,  $\{z^n + f(\zeta_n z)\}$ ,  $\{z^n + \frac{a_0}{1-a_n z}\}$ ,

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On Bases of the Form  $\{z^n + f_n(z)\}$

$\{z^{n-1} + \frac{z^{-n}}{(n-1)!} \int_0^r f(\zeta)(z-\zeta)^{n-1} d\zeta\}$  etc. In the third part, the results

obtained for the circle are transferred to a ring. The author proves general theorems and gives examples of concrete systems forming a base. In the fourth part the author considers the system of functions  $\{z^n + \lambda f_n(z)\}$ , where

(1) 
$$f_n(z) = \sum_{k=0}^{\infty} a_{kn} z^k \in A_R, \quad R > 1,$$

and  $\{f_n(z)\}$  has a general majorant  $H(z) = q_0 + q_1 z + \dots$  ( $\lim_{n \rightarrow \infty} \sqrt[n]{|q_n|} \leq 1$ ) in  $A_R$

so that  $|a_{kn}| \leq q_k$  for all  $k$  and  $n$ . The set of values  $\lambda$  for which the system of functions (1) forms no base in  $A_r$  ( $1 < r \leq R$ ) is called the spectrum of

the system (1). The author shows that 1) for  $|\lambda| = \sum_{k=0}^{\infty} q^k$  the system (1)

forms a quasipower base with coefficients of  $A_r$  in the circle  $|z| < r$ ,

$1 < r \leq R$ ; 2) the spectrum of the system consists of an at most countable

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C111/C222

On Bases of the Form  $\{z^n + f_n(z)\}$

set of values having no finite accumulation point. 3) necessary and sufficient conditions are given that the set  $\{\lambda\}$  consists of finitely many points. X

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

Card 3/3

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S/055/60/000/02/02/009

AUTHOR: Kas'min, Yu.A.

TITLE: On the Subsequences of Hermite's and Laguerre's Polynomials

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I, matematika, mekhanika, 1960, No. 2, pp. 6-9

TEXT: Let  $A_R$ ,  $0 < R < \infty$  be the space of functions analytic in  $|z| < R$ .

Theorem 1: If  $\lim_{n \rightarrow \infty} \frac{n}{\lambda_n} = G > \frac{1}{2}$ , then the sequence of Hermite's polynomials  $\{H_{\lambda_n}(z)\}$ ,  $n=0,1,2,\dots$  is complete in every  $A_R$ ,  $0 < R < \infty$ .

Theorem 2: If  $\lim_{n \rightarrow \infty} \frac{n}{\lambda_n} = G > 0$ , then the subsequence of Laguerre's polynomials

$\{L_{\lambda_n}^{(\alpha)}(t)\}$ ,  $n=0,1,2,\dots$  is complete in every  $A_R$ ,  $0 < R < \infty$ .

The author mentions A.F. Leont'yev. There are 5 references: 4 Soviet and 1 German.

ASSOCIATION: Kafedra teorii funktsiy (Department of Theory of Functions)

SUBMITTED: June 10, 1959

Card 1/1